SECRET
(When Filled In)

#997295

R & D CATALOG FORM

DATE: 23 December 1965

1. PROJECT TITLE/CODE NAME
Reader Production Model [ ] 25X1A

2. SHORT PROJECT DESCRIPTION
Production of the [ ] Variable-Width Film Reader 25X1A

[ ] 25X1A

5. CLASS OF CONTRACTOR
Manufacturer

6. TYPE OF CONTRACT
Fixed Price

7. FUNDS
FY 19 65 $ 25X1A
FY 19 67 $ [ ]
FY 19 68 $

8. REQUISITION NO.
N/A

9. BUDGET PROJECT NO.
NP-MS-7

10. EFFECTIVE CONTRACT DATE *(Begin - end)*

11. SECURITY CLASS.
AA - Confidential
T - Unclassified
W - Unclassified

25X1

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION
DDI/NPIC/P&DS/[ ] [ ] 25X1A

13. REQUIREMENT/AUTHORITY
The NPIC is required to scan large volumes of film for the intelligence content. It is the purpose of this development to produce a machine, superior to those presently available, which can accomplish this task.

14. TYPE OF WORK TO BE DONE
Production

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Viewers and Other Interpretation Equipment	Photo Measurement
	Photo Interpretation
	Optical Systems

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.
Produce a Reader which is based upon the prototype Film Reader and which can be produced in quantity: it will incorporate an additional 3x magnification and other changes indicated by the prototype's evaluation.

25X1

17. SUPPORTING OR RELATED CONTRACTS *(Agency & Other)*/COORDINATION
This program is a follow-on to [ ] and is being coordinated with other reader and viewer development programs.

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT *(Continue on additional page if required)*
The NPIC has contracted for and received delivery on a Film Reader prototype designed for on-line use. This reader enables the photo interpreter to scan large volumes of film with increased effectiveness and provides a measurement capability tied directly into the NPIC central computer for real-time data processing. The reader incorporates a light source of higher intensity than ever before used in equipment of this type; consequently, a liquid film gate is used to adequately cool the film, protecting it from heat damage.

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI

FORM 11-64 2338

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GROUP 1 Excluded from automatic downgrading and declassification

(1-13)

R & D Catálog Form continued...

18. The production model Reader is capable of higher accuracy measurements than previous film readers of this type.

Although the prototype reader has been successfully completed, a redesign was made for the purpose of improvements indicated in the course of the prototype evaluation. The redesign was directed toward reducing the cost, complexity, and overall size of potential production models. Features to be included in the proposed redesign are:

1. The cabinet and frame will be changed to insure the required structural rigidity and to reduce the overall size. The approximate dimensions of the new structure are: 6-feet high, 3-feet wide, and 7-feet long, excluding control panel. In addition, removable extensions are required on each side to allow for rotation of the film transport increasing the total width to 4-feet.

2. An additional magnification of 3x will be provided giving five available magnification ranges of 3x, 6x,12x, 24x, and 48x.

3. The film gate size will be increased to 9 1/2 inches square to allow projection of a full 9 1/2 inch width format at 3x.

4. A variable-width real mechanism will be incorporated to accept any film size from 70mm to 9 1/2" without adapters and to maintain the center of the film on the same line with respect to the center of the film platen regardless of the film width used. The center of rotation will lie on the center of the film as long as the lateral stage is at center.

5. The film loading system will be redesigned to insure simplicity of loading with a minimum of operator effort. In the event that all the leader is pulled through the platen, it will be possible to rethread the machine without disassembling the platen or other components.

6. All specifications or features now available on the prototype reader will be maintained or improved upon.

All necessary security procedures are in effect at the contractor's plant as a result of previous SC-1 contracts. The same on-line accumulator system as used in the prototype will be employed in the production model.

NPIC/D-56-65
15 APR 1965

MEMORANDUM FOR: Assistant Deputy Director (Intelligence)

SUBJECT : Research and Development Project Approval Request for the Development of a Variable Width Film Reader

REFERENCE : DDCI Memorandum ER 63-88121, dated 23 December 1963, Approval of Research and Development Activities

In compliance with paragraph 5.b. of the reference, it is requested that the development of a variable width film reader as outlined in attachment "A" be approved. The estimated cost of this project is [redacted]

25X1A

[redacted]

25X1A

ARTHUR C. LUNDAHL
Director
National Photographic Interpretation Center

25X1A

APPROVED: [redacted]
PAUL A. BOREL
Assistant Deputy Director
(Intelligence)

16 Apr 65
Date

Attachment: "A"

Distribution
Orig & 1 - LB/SS/NPIC
1 - O/Dir
1 - P&DS
LB/SS/NPIC/[redacted] April 1965)

25X1A